

Regnum Vegetabile vol. 16

**REPERTORIUM PLANTARUM
SUCCULENTARUM**

VIII - 1957

Edited by

G. D. ROWLEY

UTRECHT — NETHERLANDS

Published with financial support of I.U.B.S. by the International Bureau
for Plant Taxonomy and Nomenclature of the International Association for Plant Taxonomy

REGNUM VEGETABILE

A Series of Publications for the use of Plant Taxonomists and Plant Geographers

Volume 16

REPERTORIUM PLANTARUM

SUCCULENTARUM

VIII

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Edited by

G. D. ROWLEY

under the auspices of

THE INTERNATIONAL ORGANISATION FOR SUCCULENT PLANT STUDY
L'ORGANISATION INTERNATIONALE DE RECHERCHES
SUR LES PLANTES SUCCULENTES
DER INTERNATIONALEN ORGANISATION FÜR SUKKULENTENFORSCHUNG
(Int. Commission for Succulent Plant Study of the I.U.B.S.)



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EDITORIAL

Early numbers of the Repertorium were printed on one side of the paper only and spaced out in such a way that sheets could be filed separately under year and family, or entries cut out singly and pasted onto cards to make a reference index. Members of the I.O.S. who wish to keep up this system of filing can now obtain duplicate copies of the Repertorium free of charge by writing to the publishers. For those who wish to keep their copies intact, a ten-year index of genera will be issued in 1961.

Entries in the Repertorium are printed, as far as possible, in the way that the original author published them. The only exceptions are cases of obvious misprints or flagrant transgressions of the Code which might lead to some confusion if not immediately pointed out.

Mr. L. VATRICAN and Dr. J. A. HUBER have again prepared the French and German translations, and their assistance is gratefully acknowledged.

* * *

Les premiers numéros du Répertoire ont été imprimés sur un seul côté de la feuille de papier et les noms suffisamment espacés afin d'en permettre le découpage séparément, d'après l'année, la famille, etc., pour pouvoir les coller sur un carton afin de constituer un index.

Les membres de l'I.O.S. qui voudraient continuer à opérer de même devront maintenant s'adresser aux éditeurs qui leur feront parvenir gratuitement un double du Répertoire.

Nous informons ceux qui désireraient garder leur ouvrage intact qu'un répertoire générique s'étendant sur dix années sera publié en 1961.

Les noms figurant au Répertoire sont imprimés, autant que possible, ainsi que les auteurs les ont originalement publiés. Les seules exceptions proviennent d'évidentes erreurs typographiques ou de flagrantes transgression du Code ce qui pourrait prêter à confusion si elles n'avaient pas été faites immédiatement.

Le Dr. J. A. HUBER et Monsieur L. VATRICAN ont à nouveau, respectivement, rédigé les traductions allemandes et françaises; nous les en remercions vivement.

* * *

Die früheren Nummern des Repertorium waren nur einseitig und mit grossem Zeilenabstand gedruckt, damit die Blätter einzeln nach dem Jahr oder der Familie eingeordnet oder die Angaben einfach ausgeschnitten und auf Karten geklebt zu einer Kartei zusammengestellt werden konnten. Um dieses System der Einordnung fortführen zu können, werden Duplikate des Repertorium von den Herausgebern unentgeltlich abgegeben. Im übrigen ist für 1961 ein Gattungs-Register für die letzten 10 Jahre in Vorbereitung.

Die Angaben im Repertorium werden soweit als möglich in der Form abgedruckt, wie sie vom Autor ursprünglich veröffentlicht wurden. Die einzigen Ausnahmen bilden die Fälle von eindeutigen Druckfehlern oder offensichtlichen Überschreitungen des Code, die zu Verwirrungen führen könnten, wenn sie nicht sofort beseitigt werden würden.

Mr. L. VATRICAN und Dr. J. A. HUBER haben in dankenswerter Weise wiederum die Übersetzungen in Französisch und Deutsch besorgt.

DESCRIPTIONES NOVAE 1957

Asclepiadaceae

- Ceropegia decumbens* Bally n. sp. in Cactus No. 53, April 1957, 133.
- Echidnopsis archeri* Bally n. sp. in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 59, 60, 63.
- Echidnopsis bihendulensis* Bally n. sp. in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 58, 60.
- Echidnopsis ciliata* Bally n. sp. in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 58, 59.

Cactaceae

- Acantholobivia* Y. Ito n. gen. (Typ. *Lobivia neohaageana* Backeb.) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 290, 130.
- Acanthopetalus* Y. Ito n. gen. illeg. (= *Setiechinopsis* Backeb.) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 292, 141.
- Aporocactus flagelliformis* × *Trichocereus candicans* Graeser n. hybr. in Kakt. u. and. Sukk. VIII, Sept. 1957, 129-132.
- Aylostera krugeri* Cardenas n. sp. in Cactus No. 57, Dec. 1957, 260-1.
- Borzicactus calvescens* Kimmach & Hutchison n. sp. in Cact. & Succ. J. Amer. XXIX, July-Aug. 1957, 111-115.
- Cactara Boom hybr. gen. provis. (Suggested as collective "generic" name for hybrid cactus cvs. involving more than one genus) in Succulenta Nov. 1957, 121-4.
- Cactus Boom hybr. gen. provis. (Suggested as collective "generic" name for hybrid cactus cvs. involving more than one genus) in Succulenta Nov. 1957, 121-4.
- Cephalocereus machrisii* Dawson n. sp. in Los Angeles County Mus. Contr. in Sci. No. X, July 1957, 1.
- Chamaelobivia* Y. Ito n. gen. (Typ. *C. tanahashii* Y. Ito) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 289, 110.
- Chamaelobivia matuzakii* Y. Ito n. sp. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 289, 112.
- Chamaelobivia tanahashii* var. *notatiflora* Y. Ito n. var. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 289, 111.
- Chamaelobivia tudaе* Y. Ito n. sp. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 289, 112.
- Chamaelobivia tudaе* var. *cariniflora* Y. Ito n. var. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 290, 112.
- Chamaelobivia tudaе* var. *chrysantha* Y. Ito n. var. in Ito: Explanatory Diagram of Austroechinocactinae, March, 1957, 290, 113.
- Chamaelobivia tudaе* var. *cinnabarina* Y. Ito n. var. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 290, 112.
- Chamaelobivia tudaе* var. *croceantha* Y. Ito n. var. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 290, 112.
- Chamaelobivia tudaе* var. *rubriflora* Y. Ito n. var. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 290, 112.
- Chamaelobivia tudaе* var. *salmonea* Y. Ito n. var. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 290, 112.
- Chamaelobivia tudaе* var. *streptantha* Y. Ito n. var. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 290, 113.
- Chamaelobivia tudaе* var. *striatipetala* ("striatipetala") Y. Ito n. var. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 290, 113.
- Cleistocactus fusiflorus* Cardenas n. sp. in Cactus No. 57, Dec. 1957, 252-4.
- Cleistocactus reae* Cardenas n. sp. in Cactus No. 57, Dec. 1957, 251-2.
- Corryocactus charazanensis* Cardenas n. sp. in Cactus No. 57, Dec. 1957, 247-9.
- Corryocactus pulquinensis* Cardenas n. sp. in Nat Cact. & Succ. J. XII. Dec. 1957, 84.
- Dactylanthocactus* Y. Ito n. gen. illeg. (= *Brasilicactus* Backeb.) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 294, 225.

- Digitorebutia* 'A. V. Fric' Donald & Cullman n. cv. (*Rebutia fricii* hort.) in Cact. & Succ. J. Gt. Brit. XIX, Apr. 1957, 35, 40.
- Echinocactus ottonis* Link & Otto var. *multiflorus* Fric n. var. (*Notocactus ottonis* Link & Otto var. *multiflorus* on plate) in Succulenta Sept. 1957, 105, 106.
- Echinopsis berlingii* Y. Ito n. sp. (= *E. berlingii* Backeb. n. nud. 1936) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 285, 64.
- Echinopsis comarapana* Cardenas n. sp. in Nat. Cact. & Succ. J. XII, Sept. 1957, 61.
- Echinopsis coronata* Cardenas n. sp. in Nat. Cact. & Succ. J. XII, Sept. 1957, 63.
- Echinopsis calorubra* Cardenas n. sp. in Nat. Cact. & Succ. J. XII, Sept. 1957, 62.
- Echinopsis roseo-lilacina* Cardenas n. sp. in Cactus No. 57, Dec. 1957, 254-5.
- Echinopsis tucumanensis* Y. Ito n. sp. (= *E. tucumanensis* Backeb. n. nud. 1936 or 1937) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 285, 64.
- Freilea pseudopulcherrima* (as "pseudopulcherrima") Y. Ito n. sp. (= *Echinocactus pseudopulcherrimus* Fric n. nud. 1934) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 294, 235.
- Furiolobivia* Y. Ito n. gen. (Typ. *Echinopsis nigra* Backeb.) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 286, 77.
- Gymnantha* Y. Ito n. gen. [NON *Gymnanthus* Jungh. 1840] (Typ. *Lobivia cumingii* Br. & R. 1922) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 284, 52.
- Gymnocalycium leeanum* var. *roseiflorum* Y. Ito n. var. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 293, 199.
- Gymnocalycium marsoneri* Y. Ito n. sp. (= *G. marsoneri* Fric n. nud. 1934) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 293, 175.
- Gymnocalycium megatae* Y. Ito n. sp. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 292, 172.
- Gymnocalycium michoga* Y. Ito n. sp. (= *G. michoga* Fric n. nud. 1926) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 292, 175.
- Gymnocalycium onychacanthum* Y. Ito n. sp. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 292, 173.
- Gymnocalycium tudae* Y. Ito n. sp. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 292, 172.
- Gymnocalycium uruguayense* var. *roseiflorum* Y. Ito n. var. (= *G. uruguayense* var. *rosea* Fric n. nud. 1928) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 293, 198.
- Gymnocalycium westii* Hutchison n. sp. in Cact. & Succ. J. Amer. XXIX, Jan.-Feb. 1957, 11-14.
- Lobivia boliviensis* var. *croceantha* Y. Ito n. var. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 287, 94.
- Lobivia boliviensis* var. *rubriflora* Y. Ito n. var. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 287, 94.
- Lobivia boliviensis* var. *violaciflora* Y. Ito n. var. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 287, 94.
- Lobivia charazanensis* Cardenas n. sp. in Cactus No. 57, Dec. 1957, 256-7.
- Lobivia higginsiana* var. *carnea* Y. Ito n. var. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 286, 84.
- Lobivia ikedae* Y. Ito n. sp. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 288, 107.
- Lobivia ikedae* var. *cinnabarina* Y. Ito n. var. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 288, 108.
- Lobivia ikedae* var. *erythrantha* Y. Ito n. var. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 288, 108.
- Lobivia katagirii* Y. Ito n. sp. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 286, 87.
- Lobivia katagirii* var. *aureorubriflora* Y. Ito n. var. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 286, 87.
- Lobivia katagirii* var. *chrysantha* Y. Ito n. var. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 286, 87.
- Lobivia katagirii* var. *croceantha* Y. Ito n. var. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 286, 87.
- Lobivia katagirii* var. *salmonaea* Y. Ito n. var. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 287, 87.

- Lobivia matuzawae* Y. Ito n. sp. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 289, 109.
- Lobivia megatae* Y. Ito n. sp. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 287, 103.
- Lobivia nealeana* var. *grandiflora* Y. Ito n. var. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 287, 103.
- Lobivia nealeana* var. *purpureiflora* Y. Ito n. var. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 287, 103.
- Lobivia otukae* Y. Ito n. sp. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 287, 100.
- Lobivia otukae* var. *cinnabarina* Y. Ito n. var. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 287, 100.
- Lobivia otukae* var. *croceantha* Y. Ito n. var. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 287, 100.
- Lobivia polyantha* Y. Ito n. sp. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 289, 110.
- Lobivia rowleyi* Y. Ito n. sp. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 288, 103.
- Lobivia rowleyi* var. *longispina* Y. Ito n. var. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 288, 104.
- Lobivia rowleyi* var. *rubraurantiaca* Y. Ito n. var. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 288, 104.
- Lobivia watadae* Y. Ito n. sp. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 288, 109.
- Lobivia watadae* var. *salmonea* Y. Ito n. var. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 289, 109.
- Loxanthocereus casmaensis* Backeberg n. sp. subnud. in Cactus No. 53, April 1957, 139 et seq.
- Matucana brunnescens* Backeberg n. sp. subnud. in Cactus No. 53, April 1957, 139.
- Matucana weberbaueri* Vaup. var. *blancii* Backeberg n. var. subnud. in Cactus No. 53, April 1957, 139.
- Mesechinopsis* Y. Ito n. gen. (Typ. *Echinopsis hamatacantha* Backeb.) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 286, 73.
- Mesechinopsis nakajimae* Y. Ito n. sp. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 286, 76.
- Neodawsonia guengolensis* Bravo n. sp. in Anal. Inst. Biol. Mex. XXVII. i, 12, 1956 (June 1957).
- Neodawsonia nana* Bravo n. sp. in Anal. Inst. Biol. Mex. XXVII. i, 15, 1956 (June 1957).
- Neolobivia* Y. Ito n. gen. (Typ. *Lobivia wrightiana* Backeb.) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 284, 54.
- Neolobivia nakaii* Y. Ito n. sp. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 284, 57.
- Neolobivia nakaii* var. *albiflora* Y. Ito n. var. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 285, 58.
- Neolobivia nakaii* var. *albicinnabarina* Y. Ito n. var. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 285, 58.
- Neolobivia nakaii* var. *atorosiflora* Y. Ito n. var. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 285, 58.
- Neolobivia nakaii* var. *atorubriflora* Y. Ito n. var. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 285, 58.
- Neolobivia nakaii* var. *rosiflora* Y. Ito n. var. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 285, 58.
- Neolobivia segawae* Y. Ito n. sp. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 284, 56.
- Neolobivia segawae* var. *albiroseiflora* (as "rosiflora") Y. Ito n. var. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 284, 56.
- Neolobivia segawae* var. *roseiflora* (as "rosiflora") Y. Ito n. var. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 284, 56.
- Neolobivia segawae* var. *rubriviolaciflora* Y. Ito n. var. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 284, 56.
- Neolobivia xiphacantha* Y. Ito n. sp. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 285, 58.
- Neoporteria densispina* Y. Ito n. sp. (= *Chilenia densispina* Backeb. n. nud. 1937) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 293, 213.

- Neotanáhashia* Y. Ito n. gen. illeg. (as “*Netanahashia*”) (= *Reicheocactus* Backeb.) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 290, 113.
- Notocactus müller-möller* Fric ex Buining n. subnud. in Succulenta Sept. 1957, 102-3.
- Notocactus velenovskyi* (as “*velennovskyi*”) Y. Ito n. sp. (= *N. velenovskyi* Fric n. nud. 1921) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 294, 247.
- Opuntia johnsonii* Johnson nom. nud. in Cact. & Succ. J. Amer. XXIX, Jan.-Feb. 1957, 22.
- Oroya depressa* Backeberg n. sp. subnud. in Cactus No. 53, April 1957, 139 et seq.
- Parodia gigantea* Fric ex Krainz n. sp. (= *Microspermia gigantea* Fric. 1928 nom. nud.) in Sukkulantenkunde VI, Jan. 1957, 26-8.
- Parodia mairanana* Cardenas n. sp. in Nat. Cact. & Succ. J. XII, Dec. 1957, 84.
- Pediocactus* (?) *paradinei* B. W. Benson n. sp. in Cact. & Succ. J. Amer. XXIX, Sept.-Oct. 1957, 136-7; Marshall in Saguaroland Bull. X, Oct. 1956, 89-91 as “*Pediocactus* sp.”
- Pilocanthus* B. W. Benson & Backeb. n. gen. (Typ. *P. paradinei* (B. W. Benson) B. W. Benson & Backeb.) in Kakt. u. and. Sukk. VIII, Dec. 1957, 187-9.
- Pygmaeocereus* Johnson & Backeb. n. gen. (Typ. *P. bylesianus* Andreae & Backeb.) in Nat. Cact. & Succ. J. XII, Dec. 1957, 86.
- Pygmaeocereus bylesianus* Andreae & Backeb. n. sp. in Nat. Cact. & Succ. J. XII, Dec. 1957, 86.
- Pygmaeocereus akersii* Johnson ex Backeb. n. nud. in Nat. Cact. & Succ. J. XII, Dec. 1957, 87.
- Rebutia (Aylosteria) fiebrigii* (Guerke) Br. & R. f. *densisetata* Cullman n. forma in Sukkulantenkunde VI, Jan. 1957, 25.
- Rebutia senilis* var. *schieliana* Bewerunge n. var. in Kakt. u. and. Sukk. VIII, July 1957, 105-6.
- Rebutia tiraquensis* Cardenas n. sp. in Cactus No. 57, Dec. 1957, 257-9.
- Rebutia totoensis* Cardenas n. sp. in Cactus No. 57, Dec. 1957, 259-60.
- Rhypsalis monacantha* Griseb. var. *samaipatana* Cardenas n. var. in Nat. Cact. & Succ. J. XII, Dec. 1957, 85.
- Ritterocereus chacalapensis* Bravo & MacDougall n. sp. in Anal. Inst. Biol. Mexico XXVII, 1956, 311; Cact. y Suc. Mex. II. iii, Jul.-Sept. 1957, 49-52, 55.
- Salpingolobivia* Y. Ito n. gen. (Typ. *Echinopsis aurea* Br. & R.) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 290, 135.
- Salpingolobivia aurea* var. *aurantiaca* Y. Ito n. var. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 291, 138.
- Salpingolobivia aurea* var. *aureorubriflora* Y. Ito n. var. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 291, 137.
- Salpingolobivia aurea* var. *cinnabarina* Y. Ito n. var. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 291, 138.
- Salpingolobivia aurea* var. *roseiflora* Y. Ito n. var. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 291, 138.
- Salpingolobivia aurea* var. *rubriflora* Y. Ito n. var. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 291, 137.
- Salpingolobivia aurea* var. *salmonea* Y. Ito n. var. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 291, 138.
- Salpingolobivia cylindrica* var. *aureorubriflora* Y. Ito n. var. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 291, 139.
- Salpingolobivia cylindrica* var. *roseiflora* Y. Ito n. var. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 291, 139.
- Salpingolobivia cylindrica* var. *salmonea* Y. Ito n. var. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 291, 139.
- Salpingolobivia spinosissima* Y. Ito n. sp. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 291, 140.
- Salpingolobivia spinosissima* var. *rubriflora* Y. Ito n. var. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 291, 140.
- Samaipaticereus inquisivensis* Cardenas n. sp. in Cactus No. 57, Dec. 1957, 246-7.
- Sericocactus* Y. Ito n. gen. (Typ. *Malacocarpus haselbergii* Br. & R.) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 293, 220.
- Thelocephala* Y. Ito n. gen. (Typ. *Neoporteria napina* Backeb. 1935) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 292, 148.

Thelocephala roseiflora Y. Ito n. sp. in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 292, 149.

Trichocereus thelegonus × *Pseudolobivia kermesina* Graeser n. hybr. in Kakt. u. and. Sukk. VIII. Sept. 1957, 129-132.

Trichocereus trichosus Cardenas n. sp. in Cactus No. 57, Dec. 1957, 249-51.

Trichocereus tulhuayacensis Ochoa n. sp. in Kakt. u. and. Sukk. VIII, July 1957, 106-7.

Crassulaceae

Adromischus bicolor Hutchison n. sp. in Cact. & Succ. J. Amer. XXIX, Jan.-Feb. 1957, 15-17.

Adromischus blosianus Hutchison n. sp. in Cact. & Succ. J. Amer. XXIX, March-April 1957, 35-37.

Crassula × *andegavensis* Boom n. hybr. (= *C. falcata* Willd. × *schmidtii* Reg.; *Rochea andegavensis* hort.; *Crassula rubicunda* Jacobs. non Mey. nec Haage & Schmidt) in Succulenta March 1957, 25-7.

Crassula × *graeseri* Boom n. hybr. (= *C. rosularis* Haw. × *C. falcata* Willd. Graeser in Gartenwelt LI, 1951, 189; *C. hybrida* Graes. nom. nud.) in Succulenta May 1957, 49-52.

Crassula guilelmitrollii Stopp n. sp. in Beitr. Biol. Pflanzen XXXIV. i, 1957, 174.

Crassula milfordae Byles n. sp. in Nat. Cact. & Succ. J. XII, June 1957, 28-30.

Crassula picturata Boom n. sp. (= *C. cooperi major* hort.) in Succulenta April 1957, 41-3.

Echeveria pulvinata Rose 'Ruby' Boom, n. cv. in Succulenta July 1957, 73-6.

Sempervivum tectorum var. *calcareum* 'Grigg's Surprise' Byles n. cv. (= *S. tectorum* var. *calcareum* (Jord.) Car. & St. L. f. *monstrosum* hort.; *Cotyledon persica* hort.; *Umbilicus persicus* hort.; *Umbilicus syriensis* hort.; *Sempervivastrum* sp. hort.) in Nat. Cact. & Succ. J. XII, Dec. 1957, 70-72.

Euphorbiaceae

(*Pedilanthus calcaratus* Schlecht. × *finkii* Boiss. ?) Dressler n. hybr. in Contr. Gray Herb. CLXXXII, 1957, 77.

Pedilanthus gracilis Dressler n. sp. in Contr. Gray Herb. CLXXXII, 1957, 109.

(*Pedilanthus macrocarpus* Bentham × *bracteatus* Boiss.) Dressler n. hybr. in Contr. Gray Herb. CLXXXII, 1957, 76.

(*Pedilanthus palmeri* Millsp. × *calcaratus* Schlecht.) Dressler n. hybr. in Contr. Gray Herb. CLXXXII, 1957, 76.

Pedilanthus pulchellus Dressler n. sp. in Contr. Gray Herb. CLXXXII, 1957, 111.

(*Pedilanthus tithymaloides* subsp. *padifolius* Dressl. × *P.t.* subsp. *angustifolius* Dressl.) Dressl. n. hybr. in Contr. Gray Herb. CLXXXII, 1957, 169.

(*Pedilanthus tithymaloides* subsp. *tithymaloides* × *P.t.* subsp. *parasiticus* Dressl.) Dressl. n. hybr. in Contr. Gray Herb. CLXXXII, 1957, 168.

(*Pedilanthus tithymaloides* subsp. *tithymaloides* × *P.t.* subsp. *smallii* Dressl.) Dressl. n. hybr. in Contr. Gray Herb. CLXXXII, 1957, 167.

Ficoidaceae

Aizoanthemum Dinter ex Friedrich n. gen. (Typ. *A. membrum-connectens* Dint. ex Friedr.) in Mitt. Bot. Staats. München XVII-XVIII, 1957, 339-349.

Aizoanthemum membrum-connectens Dint. nom. nud. ex Friedr. n. sp. in Mitt. Bot. Staats. München XVII-XVIII, 1957, 345.

Conophytum extractum Tisch. n. sp. in Cact. & Succ. J. Gt. Brit. XIX, Oct. 1957, 78, 83.

Conophytum glabrum Tisch. n. sp. in Cact. & Succ. J. Gt. Brit. XIX, Jan. 1957, 11, 15.

Conophytum impressum Tisch. n. sp. in Cact. & Succ. J. Gt. Brit. XIX, Jan. 1957, 10, 11.

Conophytum parvipunctum Tisch. n. sp. in Cact. & Succ. J. Gt. Brit. XIX, Oct. 1957, 79, 83.

Conophytum rostratum Tisch. n. sp. in Cact. & Succ. J. Gt. Brit. XIX, Apr. 1957, 33, 35.

Lithops hallii De Boer n. sp. in Succulenta July 1957, 85-6.

Liliaceae

× *Gasterhaworthia* 'Royal Highness' Rowley n. cv. (= × *Gasworthia* 'Royal Highness' hort. Gates) in Nat. Cact. & Succ. J. XII, Dec. 1957, 74-5.

Haworthia krausii hort. ex J. R. Brown, n. hybr. (= *H. tortuosa* Haw. × ?) in Cact. & Succ. J. Amer. XXIX, March-April 1957, 56-7.

Marginatae Uitew. n. sect. superfl. (Gen. *Haworthia*; = *Albicantes* Haw.) in Succulenta Sept. 1957, 100.

COMBINATIONES NOVAE 1957

Cactaceae

- Acanthocalycium formosanum* var. *albispinum* Y. Ito n. comb. (= *Echinopsis formosanum* var. *albispinum* Web. 1907) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 145.
- Acanthocalycium formosanum* var. *crassispinum* Y. Ito n. comb. (= *Echinocactus formosanus* var. *crassispinus* Monv. 1853) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 145.
- Acanthocalycium formosanum* var. *gilliesii* Y. Ito n. comb. (= *Echinopsis formosanum* var. *gilliesii* S.D. 1845) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 145.
- Acanthocalycium formosanum* var. *laevior* Y. Ito n. comb. (= *Echinopsis formosanum* var. *laevior* Monv. 1853) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 145.
- Acanthocalycium formosanum* var. *rubrispinum* Y. Ito n. comb. (= *Echinopsis formosanum* var. *rubrispinum* Monv. 1853) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 145.
- Acanthocalycium formosanum* var. *spiniosior* Y. Ito n. comb. (= *Echinopsis formosanum* var. *spiniosior* S.D. 1850) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 145.
- Acantholobivia euanthema* (Backeb.) Ito n. comb. (= *Lobivia euanthema* Backeb. 1935, *Rebutia oculata* Werd. 1935) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 131.
- Acantholobivia haagei* Y. Ito n. comb. (= *Rebutia haagei* Fric & Schelle n. nud. 1930, *Rebulobivia haagei* Fric n. nud. 1934, *Lobivia neohaageana* Backeb. 1935, etc.) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 131.
- Acanthopetalus mirabilis* Y. Ito n. comb. illeg. (= *Setiechinopsis mirabilis* Backeb. 1938) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 143.
- Anisocereus foetidus* (MacD. & Mir.) Marshall n. comb. (= *Pterocereus foetidus* MacDougall & Miranda in Ceiba IV, 1954, 135) in Sagaroland Bull. XI, March 1957, 35.
- Arequipa clavata* (Sohr.) Y. Ito n. comb. (= *Echinocactus clavatus* Sohr. 1900) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 156.
- Aylostera walteriana* (Backeb.) Y. Ito n. comb. (= *Rebutia walteriana* Backeb. 1933) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 129.
- Borzicactus aurantiacus* (Vaupel) Kimmach & Hutchison n. comb. (= *Echinocactus aurantiacus* Vaup. in Engl. Bot. Jahrb. I, 1913, 23; *Arequipa aurantiaca* Werd.) in Cact. & Succ. J. Amer. XXIX, March-April 1957, 46-51.
- Cephalocereus bradei* (Backeb. & Voll) Dawson n. comb. (= *Pilocereus bradei* Backeb. & Voll 1942) in Los Angeles County Mus. Contr. in Sci. No. X, July 1957, 6.
- Cephalocereus cuyabensis* (Backeb.) Dawson n. comb. (= *Pilocereus cuyabensis* Backeb. 1935) in Los Angeles County Mus. Contr. in Sci. No. X, July 1957, 1.
- Cephalocereus hapalacanthus* (Werd.) Dawson n. comb. (= *Pilocereus hapalacanthus* Werd. 1933) in Los Angeles County Mus. Contr. in Sci. No. X, July 1957, 6.
- Cephalocereus minensis* (Werd.) Dawson n. comb. (= *Cereus minensis* Werd. 1933) in Los Angeles County Mus. Contr. in Sci. No. X, July 1957, 6.
- Dactylanthocactus graessneri* Y. Ito n. comb. illeg. (= *Brasilicactus graessneri* (K. Sch.) Backeb.) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 225.
- Denmoza rhodacantha* var. *coccinea* (Monv.) Y. Ito n. comb. (= *Echinopsis rhodacantha* var. *coccinea* Monv. 1853) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 154.

- Denmoza rhodacantha* var. *gracilior* (Lab.) Y. Ito n. comb. (= *Echinopsis rhodacantha* var. *gracilior* Lab. 1853) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 154.
- Digitorebutia brachyantha* var. *ritteri* (Wessn.) Donald n. comb. (= *Lobivia ritteri* Wessner in Beitr. f. Sukkulenteuk. u. Pflege 1938, 3.) in Nat. Cact. & Succ. J. XII, March 1957, 11.
- Digitorebutia costata* var. *eucaliptana* (Backeb.) Donald n. comb. (= *Lobivia eucaliptana* Backeb. in Kaktus ABC, 1935, 414.) in Nat. Cact. & Succ. J. XII, 11.
- Digitorebutia euanthema* var. *longispina* (Backeb.) Donald n. comb. nud. (= *Pygmaeolobivia pygmaea* var. *longispina* Backeb. n. nud. in 10 Jahr. Kakt. Forsch. 1937, 28.) in Nat. Cact. & Succ. J. XII, March 1957, 11.
- Digitorebutia haagei* var. *atrovirens* (Backeb.) Donald n. comb. (= *Lobivia atrovirens* Backeb. in Kaktus ABC, 1935, 414.) in Nat. Cact. & Succ. J. XII, March 1957, 11.
- Digitorebutia haagei* var. *digitiformis* (Backeb.) Donald n. comb. (= *Lobivia digitiformis* Backeb. in Kaktus ABC, 1935, 414.) in Nat. Cact. & Succ. J. XII, March 1957, 11.
- Digitorebutia haagei* var. *orurensis* (Backeb.) Donald n. comb. (= *Lobivia orurensis* Backeb. in Kaktus ABC, 1935, 414.) in Nat. Cact. & Succ. J. XII, March 1957, 11.
- Digitorebutia haagei* var. *pectinata* (Backeb.) Donald n. comb. (= *Lobivia pectinata* Backeb. in Kaktus ABC, 1935, 414.) in Nat. Cact. & Succ. J. XII, March 1957, 11.
- Echinopsis gladispina* Y. Ito nom. nov. (= *E. campylacantha* R. Mey. 1898; *E. salpingophora* Preinr. 1898) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 68.
- Echinopsis xiphacantha* var. *brevispina* Y. Ito n. comb. (= *E. campylacantha* var. *brevispina* R. Mey. 1895) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 66.
- Echinopsis xiphacantha* var. *leucantha* Y. Ito n. comb. (= *E. campylacantha* var. *leucantha* Lab. 1853) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 66.
- Echinopsis xiphacantha* var. *longispina* Y. Ito n. comb. (= *E. campylacantha* var. *longispina* R. Mey. 1895) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 66.
- Eriocephalus grossei* Y. Ito n. comb. (= *Echinocactus grossei* K. Sch. 1899; *Malacocarpus grossei* Br. & R. 1922; *Notocactus grossei* Berg. 1929, etc.) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 252.
- Eriocephalus leninghausii* Y. Ito n. comb. (= *Notocactus leninghausii* Berg. 1929; *Malacocarpus leninghausii* Br. & R. 1922, etc.) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 253.
- Eriocephalus schumannianus* Backeb. var. *longispinus* Y. Ito n. comb. (= *Echinocactus schumannianus* var. *longispinus* Haage jr. 1899) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 252.
- Eriocephalus schumannianus* Backeb. var. *nigrispinus* Y. Ito n. comb. (= *Echinocactus schumannianus* var. *nigrispinus* Haage jr. 1898; etc.) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 252.
- Eriosyce ceratistes* Br. & R. var. *celsii* Y. Ito n. comb. (= *Echinocactus ceratistes* var. *celsii* Lab. 1853) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 135.
- Eriosyce ceratistes* Br. & R. var. *melanacantha* Y. Ito n. comb. (= *Echinocactus ceratistes* var. *melanacanthus* Lab. 1853) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 134.
- Frailea grahliana* Br. & R. var. *rubrispina* Y. Ito n. comb. (= *Echinocactus grahlianus* var. *rubrispinus* Schelle 1926) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 233.
- Frailea phaeodisca* Y. Ito n. comb. (= *Echinocactus phaeodiscus* Speg. 1905) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 237.
- Frailea pumila* Br. & R. var. *gracillima* Y. Ito n. comb. (= *Frailea gracillima* Br. & R. 1922) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 233.
- Frailea schilinzkyana* var. *grandiflora* Y. Ito n. comb. (= *Echinocactus schilinzkyanus* var. *grandiflorus* Haage jr. 1898) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 233.
- Furiolobivia ducis-paulii* (as "*ducis pauli*") Y. Ito n. comb. (= *Echinopsis ducis-pauli* Fric 1928, *Lobiviopsis ducis-pauli* Fric n. nud. 1934) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 80.

- Furiolobivia ferox* Y. Ito n. comb. (= *Lobivia ferox* Br. & R. 1922, *Echinopsis ferox* Backeb. 1935) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 80.
- Furiolobivia longispina* Y. Ito n. comb. (= *Lobivia longispina* Br. & R. 1922, *Echinopsis longispina* Backeb. 1935) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 79.
- Furiolobivia nigra* Y. Ito n. comb. (= *Echinopsis nigra* Backeb. 1935) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 79.
- Furiolobivia potosina* Y. Ito n. comb. (= *Echinopsis potosina* Werd. 1931) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 80.
- Gymnantha cumingii* Y. Ito n. comb. (= *Lobivia cumingii* Br. & R. 1922, *Weingartia cumingii* Werd. 1939, etc.) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 53.
- Gymnocalycium denudatum* Pfeiff. var. *andersohnianum* Y. Ito n. comb. (= *Echinocactus denudatus* var. *andersohnianus* Haage jr. 1898) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 170.
- Gymnocalycium denudatum* Pfeiff. var. *delaetianum* Y. Ito n. comb. (= *Echinocactus denudatus* var. *delaetianus* Haage jr. 1898) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 170.
- Gymnocalycium denudatum* Pfeiff. var. *flavispinum* Y. Ito n. comb. (= *Echinocactus denudatus* var. *flavispinus* Schelle 1907) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 170.
- Gymnocalycium denudatum* Pfeiff. var. *golzianum* Y. Ito n. comb. (= *Echinocactus denudatus* var. *golzianus* Mundt 1897) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 170.
- Gymnocalycium denudatum* Pfeiff. var. *heuschkelianum* Y. Ito n. comb. (= *Echinocactus denudatus* var. *heuschkelianus* Haage jr. 1898) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 170.
- Gymnocalycium denudatum* Pfeiff. var. *meiklejohnianum* Y. Ito n. comb. (= *Echinocactus denudatus* var. *meiklejohnianus* Haage jr. 1898) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 170.
- Gymnocalycium denudatum* Pfeiff. var. *octogonum* Y. Ito n. comb. (= *Echinocactus denudatus* var. *octogonus* K. Sch. 1890) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 170.
- Gymnocalycium denudatum* Pfeiff. var. *roseiflorum* Y. Ito n. comb. (= *Echinocactus denudatus* var. *roseiflorus* Hildm. 1898) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 170.
- Gymnocalycium denudatum* Pfeiff. var. *scheidelianum* Y. Ito n. comb. (= *Echinocactus denudatus* var. *scheidelianus* Haage jr. 1898) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 170.
- Gymnocalycium denudatum* Pfeiff. var. *wagnerianum* Y. Ito n. comb. (= *Echinocactus denudatus* var. *wagnerianus* Haage jr. 1898) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 170.
- Gymnocalycium denudatum* Pfeiff. var. *wieditzianum* Y. Ito n. comb. (= *Echinocactus denudatus* var. *wieditzianus* Haage jr. 1898) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 170.
- Gymnocalycium fidaianum* (Backeb.) Hutchison n. comb. (= *Echinocactus fidaianus* Backeb. in *Kakteenfreund* II, 1933, 117; *Spegazzinia fidaiana* Backeb.; *Weingartia fidaiana* Werd.) in *Cact. & Succ. J. Amer.* XXIX, Jan.-Feb. 1957, 11.
- Gymnocalycium gibbosum* Pfeiff. var. *celsianum* Y. Ito n. comb. (= *Echinocactus gibbosus* var. *celsianus* Lab. 1885) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 190.
- Gymnocalycium gibbosum* Pfeiff. var. *cerebriforme* Y. Ito n. comb. (= *Echinocactus gibbosus* var. *cerebriformis* Speg. 1899) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 190.
- Gymnocalycium gibbosum* Pfeiff. var. *fennellii* Y. Ito n. comb. (= *Echinocactus gibbosus* var. *fennellii* Haage jr. 1899) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 190.
- Gymnocalycium gibbosum* Pfeiff. var. *ferox* Y. Ito n. comb. (= *Echinocactus gibbosus* var. *ferox* Lab. 1885) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 190.
- Gymnocalycium gibbosum* Pfeiff. var. *leonense* Y. Ito n. comb. (= *Echinocactus gibbosus* var. *leonensis* Hildm. 1898) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 190.

- Gymnocalycium gibbosum* Pfeiff. var. *leucacanthum* Y. Ito n. comb. (= *Echinocactus gibbosus* var. *leucacanthus* K. Sch. 1898) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 190.
- Gymnocalycium gibbosum* Pfeiff. var. *leucodictyon* Y. Ito n. comb. (= *Echinocactus gibbosus* var. *leucodictyon* K. Sch. 1898) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 190.
- Gymnocalycium gibbosum* Pfeiff. var. *pluricostatum* Y. Ito n. comb. (= *Echinocactus gibbosus* var. *pluricostatus* Först. 1885) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 190.
- Gymnocalycium gibbosum* Pfeiff. var. *polygonum* Y. Ito n. comb. (= *Echinocactus gibbosus* var. *polygonus* K. Sch. 1898) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 190.
- Gymnocalycium gibbosum* Pfeiff. var. *ventanicolum* Y. Ito n. comb. (= *Echinocactus gibbosus* var. *ventanicolum* Speg. 1903) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 190.
- Gymnocalycium hyptiacanthum* Br. & R. var. *eleutheracanthum* Y. Ito n. comb. (= *Echinocactus hyptiacanthus* var. *eleutheracanthus* Monv. 1853) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 198.
- Gymnocalycium hyptiacanthum* Br. & R. var. *megalothelum* Y. Ito n. comb. (= *Echinocactus hyptiacanthus* var. *megalothelus* Monv. 1853) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 198.
- Gymnocalycium hyptiacanthum* Br. & R. var. *nitidum* Y. Ito n. comb. (= *Echinocactus hyptiacanthus* var. *nitidus* Monv. 1853) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 198.
- Gymnocalycium neocumingii* (Backeb.) Hutchison n. comb. (= *Weingartia neocumingii* Backeb. in Kakt. u. a. Sukk. II, 1950, 2; *Echinocactus cumingii* S.D. 1850 non Hopf. 1843; *Lobivia cumingii* Br. & R. 1922) in Cact. & Succ. J. Amer. XXIX, Jan.-Feb. 1957, 14.
- Gymnocalycium neumannianum* (Backeb.) Hutchison n. comb. (= *Echinocactus neumannianus* Backeb. in Kakteenfreund II, 1933, 90; *Spegazzinia neumanniana* Backeb.; *Weingartia neumanniana* Werd.) in Cact. & Succ. J. Amer. XXIX, Jan.-Feb. 1957, 11.
- Gymnocalycium platense* (as "plantense") Br. & R. var. *leptanthum* Y. Ito n. comb. (= *Echinocactus platense* var. *leptanthus* Speg. 1905) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 194.
- Gymnocalycium platense* (as "plantense") Br. & R. var. *quehlianum* Y. Ito n. comb. (= *Echinocactus platense* var. *quehlianus* Speg. 1905) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 194.
- Gymnocalycium pulquinense* (Card.) Hutchison n. comb. (= *Weingartia pulquinensis* Card. in Rev. Agric. Cochabamba VI, 1951, 26) in Cact. & Succ. J. Amer. XXIX, Jan.-Feb. 1957, 13.
- Gymnocalycium pulquinense* var. *corroanum* (Card.) Hutchison n. comb. (= *Weingartia pulquinensis* var. *corroana* Cardenas in Rev. Agric. Cochabamba VI, 1951, 30) in Cact. & Succ. J. Amer. XXIX, Jan.-Feb. 1957, 13.
- Gymnocalycium quehlianum* Haage var. *stellatum* (Speg.) Doelz n. comb. (= *Echinocactus stellatus* Speg. in Anal. Mus. Nac. Buenos Aires 1905, 505; *Gymnocalycium stellatum* Speg.) in Sukkulantenkunde VI, Jan. 1957, 30.
- Hamatocactus uncinatus* (Galeotti) Marshall n. comb. subnud. (= *Echinocactus uncinatus* Galeotti; *Ferocactus uncinatus* Br. & R.; *Thelocactus uncinatus* Marsh.; *Glandulicactus uncinatus* Backeb.) in Saguaroland Bull. XI, March 1957, 33, 36.
- Lobivia albicentra* Y. Ito n. comb. (= *Hymenorebulobivia albicentra* Fric 1935) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 102.
- Lobivia cinnabarina* Br. & R. var. *spinosior* Y. Ito n. comb. (= *Echinocactus cinnabarinus* var. *spinosior* S.D. 1850; *Echinopsis cinnabarina* var. *spinosior* Rümpl. 1885) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 91.
- Lobivia pentlandii* Br. & R. var. *albiflora* Y. Ito n. comb. (= *Echinopsis pentlandii* var. *albiflora* Werd. 1920) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 83.
- Lobivia pentlandii* Br. & R. var. *cavendishii* Y. Ito n. comb. (= *Echinopsis pentlandii* var. *cavendishii* Rümpl. 1885) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 82.

- Lobivia pentlandii* Br. & R. var. *coccinea* Y. Ito n. comb. (= *Echinopsis coccinea* S.D. 1850) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 83.
- Lobivia pentlandii* Br. & R. var. *elegans* Y. Ito n. comb. (= *Echinopsis elegans* Hildm. 1898) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 82.
- Lobivia pentlandii* Br. & R. var. *forbesii* Y. Ito n. comb. (= *Echinopsis forbesii* R. Mey. 1898) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 83.
- Lobivia pentlandii* Br. & R. var. *gracilipina* Y. Ito n. comb. (= *Echinopsis pentlandii* var. *gracilipina* Lem. 1859) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 82.
- Lobivia pentlandii* Br. & R. var. *longispina* Y. Ito n. comb. (= *Echinopsis pentlandii* var. *longispina* Rümpl. 1885) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 82.
- Lobivia pentlandii* Br. & R. var. *neubertii* Y. Ito n. comb. (= *Echinopsis neubertii* Rümpl. 1885) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 83.
- Lobivia pentlandii* Br. & R. var. *ochroleuca* Y. Ito n. comb. (= *Echinopsis pentlandii* var. *ochroleuca* R. Mey. 1898) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 82.
- Lobivia pentlandii* Br. & R. var. *pfersdorffii* Y. Ito n. comb. (= *Echinopsis pfersdorffii* Rümpl. 1885) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 82.
- Lobivia pentlandii* Br. & R. var. *pyracantha* Y. Ito n. comb. (= *Echinopsis pentlandii* var. *pyracantha* Lem. 1859) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 82.
- Lobivia pentlandii* Br. & R. var. *radians* Y. Ito n. comb. (= *Echinopsis pentlandii* var. *radians* Lem. 1859) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 83.
- Lobivia pentlandii* Br. & R. var. *scheerii* Y. Ito n. comb. (= *Echinopsis pentlandii* var. *scheerii* Lem. 1859) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 83.
- Lobivia pentlandii* Br. & R. var. *tricolor* Y. Ito n. comb. (= *Echinopsis tricolor* Rümpl. 1885) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 83.
- Lobivia pentlandii* Br. & R. var. *vitellina* Y. Ito n. comb. (= *Echinopsis pentlandii* var. *vitellina* Hildm. 1898) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 83.
- Lobivia purpurea* Y. Ito n. comb. (= *Hymenorebulobivia purpurea* Fric 1935) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 102.
- Lobivia ruberrima* Y. Ito n. comb. (= *Hymenorebulobivia ruberrima* Fric 1935) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 102.
- Malacocarpus erinaceus* Rümpl. var. *elatiior* Y. Ito n. comb. (= *Echinocactus erinaceus* var. *elatiior* Monv. 1845) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 257.
- Malacocarpus sellowii* K. Sch. var. *acutatus* Y. Ito n. comb. (= *Echinocactus sellowii* var. *acutatus* Arech. 1905) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 257.
- Malacocarpus sellowii* K. Sch. var. *courantii* Y. Ito n. comb. (= *Echinocactus sellowii* var. *courantii* Gürke 1908) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 257.
- Malacocarpus sellowii* K. Sch. var. *macracanthus* Y. Ito n. comb. (= *Echinocactus sellowii* var. *macracanthus* Arech. 1905) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 256.
- Malacocarpus sellowii* K. Sch. var. *martinii* Y. Ito n. comb. (= *Echinocactus sellowii* var. *martinii* K. Sch. 1898) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 256.
- Mammillaria dioica* Brand. var. *incerta* (Parish) Munz n. comb. (= *M. incerta* Parish 1936) in Aliso IV. i, Apr. 1958, 94.
- Mesechinopsis ancistrophora* Y. Ito n. comb. (= *Echinopsis ancistrophora* Speg. 1905) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 75.
- Mesechinopsis hamatacantha* Y. Ito n. comb. (= *Lobiviopsis hamatacantha* Fric n. nud. 1934, *Echinopsis hamatacantha* Backeb. 1935, etc.) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 74.
- Mesechinopsis leucorhodantha* Y. Ito n. comb. (= *Echinopsis leucorhodantha* Backeb. 1934) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 76.

- Mesechinopsis lobivioides* Y. Ito n. comb. (= *Echinopsis lobivioides* Backeb. 1934) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 75.
- Mesechinopsis pelecyrhachis* Y. Ito n. comb. (= *Echinopsis pelecyrhachis* Backeb. 1934) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 76.
- Mesechinopsis polyancistra* Y. Ito n. comb. (= *Echinopsis polyancistra* Backeb. 1935) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 74.
- Neochilenia ambigua* Y. Ito n. comb. (= *Echinocactus ambiguus* Hildm. 1898; *Neoporteria ambigua* Backeb. 1935) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 276.
- Neochilenia aspillagai* Y. Ito n. comb. (= *Echinocactus aspillagai* Söhr. 1929; *Neoporteria aspillagai* Backeb. 1935) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 277.
- Neochilenia ebenacantha* Backeb. var. *intermedia* Y. Ito n. comb. (= *Echinocactus ebenacanthus* var. *intermedius* Lab. 1853) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 274.
- Neochilenia ebenacantha* Backeb. var. *nova* Y. Ito n. comb. (= *Echinocactus ebenacanthus* var. *novus* Schelle 1926) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 274.
- Neochilenia nigricans* Y. Ito n. comb. (= *Echinopsis nigricans* Link 1857; *Echinocactus nigricans* Dietr. 1898; *Neoporteria nigricans* Br. & R. 1922) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 275.
- Neochilenia odieri* Backeb. var. *magnifica* Y. Ito n. comb. (= *Echinocactus odieri* var. *magnificus* Hildm. 1895) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 278.
- Neochilenia odieri* Backeb. var. *mebbesii* Y. Ito n. comb. (= *Echinocactus odieri* var. *mebbesii* Hildm. 1898) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 278.
- Neochilenia odieri* Backeb. var. *spininigris* Y. Ito n. comb. (= *Echinocactus odieri* var. *spininigris* Lab. 1853) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 278.
- Neolobivia kratochviliana* Y. Ito n. comb. (= *Echinopsis kratochviliana* Backeb. 1934, *E. hamatispina* Werd. 1934, etc.) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 57.
- Neolobivia ritteri* Y. Ito n. comb. (= *Lobivia ritteri* Wessn. 1938) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 55.
- Neolobivia wrightiana* Y. Ito n. comb. (= *Lobivia wrightiana* Backeb. 1937) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 55.
- Neoporteria chilensis* Br. & R. var. *confinis* Y. Ito n. comb. (= *Echinocactus chilensis* var. *confinis* Hildm. 1898) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 214.
- Neoporteria chilensis* Br. & R. var. *cylindrica* Y. Ito n. comb. (= *Chilenia chilensis* var. *cylindrica* Backeb. 1935) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 214.
- Neoporteria gerocephala* Y. Ito n. comb. (= *Echinocactus senilis* Phil. 1886; *Neoporteria senilis* Backeb. 1935; *Chilenia senilis* Backeb. 1937; *Chilenia gerocephala* Y. Ito 1954) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 211.
- Neoporteria pseudochilensis* Y. Ito n. comb. (= *Chilenia pseudochilensis* Backeb. 1937) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 216.
- Neoporteria thiebautiana* Y. Ito n. comb. (= *Chilenia thiebautiana* Backeb. 1937) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 220.
- Neotananashia reichei* Y. Ito n. comb. illeg. (= *Reicheocactus reichei* Backeb.) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 114.
- Notocactus concinnus* Berg. var. *joadii* Y. Ito n. comb. (= *Echinocactus joadii* Arech. 1905) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 243.
- Notocactus linkii* Y. Ito n. comb. (= *Cactus linkii* Lehm. 1827; *Echinocactus linkii* Pfeiff. 1837; *Malacocarpus linkii* Br. & R. 1922) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 249.
- Notocactus mammulosus* Berg. var. *hircinus* Y. Ito n. comb. (= *Echinocactus mammulosus* var. *hircinus* Speg. 1905) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 245.

- Notocactus mammulosus* Berg. var. *minor* Y. Ito n. comb. (= *Echinocactus mammulosus* var. *minor* Monv. 1853) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 245.
- Notocactus mammulosus* Berg. var. *pampeanus* Y. Ito n. comb. (= *Echinocactus mammulosus* var. *pampeanus* Speg. 1905) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 245.
- Notocactus mammulosus* Berg. var. *spinosior* Y. Ito n. comb. (= *Echinocactus mammulosus* var. *spinosior* Haage jr. 1853; *E. hypocrateriformis* var. *spinosior* Haage jr. 1922) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 245.
- Notocactus mammulosus* Berg. var. *submammulosus* Y. Ito n. comb. (= *Echinocactus mammulosus* var. *submammulosus* Speg. 1905) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 245.
- Notocactus ottoianus* Y. Ito nom. nov. (= *Cactus ottonis* Lehm. 1827; *Echinocactus ottonis* Link & Otto 1830; *E. arechavaletai* Speg. 1905; *E. spegazzinii* Gürke 1905; *Notocactus ottonis* Berg. 1929) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 247.
- Notocactus ottoianus* Y. Ito var. *pallidior* (as "*paltidior*") n. comb. ? (= *Echinocactus ottonis* var. *pallidior* Monv. 1889) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 249.
- Notocactus ottoianus* Y. Ito var. *schuldtii* Y. Ito n. comb. (= *Echinocactus ottonis* var. *schuldtii* Kreuz. 1933) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 248.
- Notocactus ottoianus* Y. Ito var. *spinosior* Y. Ito n. comb. (= *Echinocactus ottonis* var. *spinosior* Monv. 1839) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 249.
- Notocactus ottoianus* Y. Ito var. *tenuispinus* Y. Ito n. comb. (= *Echinocactus ottonis* var. *tenuispinus* Pfeiff. 1837) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 248.
- Notocactus ottonis* Berg. var. *brasiliensis* Y. Ito n. comb. (= *Echinocactus ottonis* var. *brasiliensis* Haage jr. 1914) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 249.
- Notocactus ottonis* Berg. var. *linkii* Y. Ito n. comb. ? (as "*Notocactus* var. *linkii*") (= "*Echinocactus* var. *linkii* Lem. 1929") in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 249.
- Notocactus ottonis* Berg. var. *minor* Y. Ito n. comb. (= *Echinocactus ottonis* var. *minor* Först. 1846) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 249.
- Notocactus ottonis* Berg. var. *paraguayensis* Y. Ito n. comb. (= *Echinocactus ottonis* var. *paraguayensis* Heese 1905) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 249.
- Notocactus ottonis* Berg. var. *pfeifferi* Y. Ito n. comb. (= *Echinocactus ottonis* var. *pfeifferi* Monv. 1845) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 249.
- Notocactus ottonis* Berg. var. *tortuosus* Y. Ito n. comb. (= *Echinocactus ottonis* var. *tortuosus* K. Sch. 1898) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 249.
- Notocactus ottonis* Berg. var. *uruguayensis* (as "*urugayensis*") Y. Ito n. comb. (= *Echinocactus ottonis* var. *uruguayensis* Arech. 1905) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 249.
- Notocactus pampeanus* Berg. var. *charruanus* Y. Ito n. comb. (= *Echinocactus pampeanus* var. *charruanus* Arech. 1905) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 246.
- Notocactus pampeanus* Berg. var. *rubellianus* Y. Ito n. comb. (= *Echinocactus pampeanus* var. *rubellianus* Arech. 1905) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 246.
- Notocactus pampeanus* Berg. var. *subplanus* Y. Ito n. comb. (= *Echinocactus pampeanus* var. *subplanus* Arech. 1905) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 246.
- Opuntia basilaris* Engelm. & Big. subsp. *whitneyana* (Baxt.) Munz n. comb. (= *O. basilaris* var. *whitneyana* (Baxt.) Marshall 1941; *O. whitneyana* Baxt. 1935; etc.) in Aliso IV. i, Apr. 1958, 94.
- Opuntia occidentalis* Engelm. & Big. var. *megacarpa* (Griff.) Munz n. comb. (= *O. engelmannii* var. *megacarpa* Fosberg 1934; *O. megacarpa* Griffiths 1909) in Aliso IV. i, Apr. 1958, 94.

- Opuntia occidentalis* Engelm. & Big. var. *piercei* (Fosberg) Munz n. comb. (= *O. phaeacantha* var. *piercei* Fosberg 1934) in Aliso IV. i, Apr. 1958, 94.
- Opuntia occidentalis* Engelm. & Big. var. *vaseyi* (Coulter) Munz n. comb. (= *O. mesacantha* var. *vaseyi* Coulter 1896; *O. vaseyi* Br. & R. 1908) in Aliso IV. i, Apr. 1958, 94.
- Parodia aurihamata* Y. Ito nom. nud. (= *Microspermia aurihamata* Fric & Kreuz. n. nud. 1935) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 270.
- Parodia macrancistra* Y. Ito n. comb. (= *Echinocactus macrancistra* K. Sch. 1903; etc.) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 270.
- Parodia macrancistra* Y. Ito var. *rigidispina* Y. Ito nom. nud. (= *Microspermia macrancistra* var. *rigidispina* Fric & Kreuz. n. nud. 1935) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 270.
- Parodia microsperma* Speg. var. *brevispina* Y. Ito n. comb. (= *Echinocactus microsperma* var. *brevispinus* Haage jr. 1922) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 267.
- Parodia microsperma* Speg. var. *elegans* Y. Ito n. comb. (= *Echinocactus microsperma* var. *elegans* Haage jr. 1922) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 267.
- Parodia microsperma* Speg. var. *thionantha* Y. Ito n. comb. (= *Echinocactus microsperma* var. *thionantha* Speg. 1905) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 266.
- Parodia rigidissima* Y. Ito n. comb. (as "rigidissimac") (= *Echinocactus rigidissimus* Fric 1928; etc.) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 270.
- Parodia rigidissima* Y. Ito var. *rubriflora* Y. Ito nom. nud. (= *Microspermia rigidissima* var. *rubriflora* Fric n. nud. 1934) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 270.
- Parodia rubrihamata* Y. Ito nom. nud. (= *Microspermia rubrihamata* Fric n. nud. 1934) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 270.
- Parodia sanagasta* Y. Ito n. comb. (= *Echinocactus sanagastus* Fric 1928; etc.) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 270.
- Pediocactus simpsonii* (Engelm.) Br. & R. var. *hermannii* Marshall n. comb. (= *Pediocactus hermannii* Marshall in Saguaro-land Bull. VIII, 1954, 78) in Saguaro-land Bull. XI, Aug.-Sept. 1957, 78-80.
- Pilocanthus paradinei* (B. W. Benson) B. W. Benson & Backeb. n. comb. (= *Pediocactus* (?) *paradinei* B. W. Benson in Cact. & Succ. J. Amer. XXIX, 1957, 136-7) in Kakt. u. and. Sukk. VIII, Dec. 1957, 187-9.
- Pilosocereus* Byl. & Rowl. nom. nov. (= *Pilocereus* K. Sch. emend. Backeb. 1951, non Lem. 1839. Typ. *Pilocereus leucocephalus* Poselg.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 66.
- Pilosocereus alensis* (Web.) Byl. & Rowl. n. comb. (= *Pilocereus alensis* Weber in Bull. Mus. Hist. Nat. Paris XI, 1905, 508.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 66.
- Pilosocereus arenicola* (Werd.) Byl. & Rowl. n. comb. (= *Pilocereus arenicola* Werd. in Brasilien und seine Säulenkakteen, 1933, 109.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 66. (In error "*Pilosocereus arenicola* Werd.).
- Pilosocereus arrabidaei* (Lem.) Byl. & Rowl. n. comb. (= *Pilocereus arrabidaei* Lem. in Rev. Hort. XXXIV, 1862, 429.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 66. (In error "*arribidaei*".)
- Pilosocereus aurisetus* (Werd.) Byl. & Rowl. n. comb. (= *Pilocereus aurisetus* Werd. in Brasilien und seine Säulenkakteen, 1933, 103.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 66.
- Pilosocereus backebergii* (Weing.) Byl. & Rowl. n. comb. (= *Cereus backebergii* Weing. in Monatss. d. D.K.G. II. viii, Aug. 1930, 167.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 66.
- Pilosocereus bahamensis* (Britt.) Byl. & Rowl. n. comb. (= *Cephalocereus bahamensis* Britt. in Contr. U.S. Nat. Herb. XII, 1909, 415.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 66.
- Pilosocereus barbadensis* (Br. & R.) Byl. & Rowl. n. comb. (= *Cephalocereus barbadensis* Br. & R. in Cactaceae II, 1920, 44.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 66.
- Pilosocereus bradei* (Backbg. & Voll) Byl. & Rowl. n. comb. (= *Pilocereus bradei* Backbg. & Voll in Blatt. f. Kakteenf. 1935, 1.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 66.

- Pilosocereus brooksianus* (Vaup.) Byl. & Rowl. n. comb. (= *Cereus brooksianus* Vaupel in Monatss. d. D.K.G. XXII, 1912, 66.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 66.
- Pilosocereus catalani* (Riccob.) Byl. & Rowl. n. comb. (= *Pilocereus catalani* Riccobono in Boll. R. Ort. Bot. Palermo II, 1921.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 66.
- Pilosocereus catingicola* (Gürke) Byl. & Rowl. n. comb. (= *Cereus catingicola* Gürke in Monatss. f. Kakteenk. XVIII, 1908, 54.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 66.
- Pilosocereus chrysacanthus* (Web.) Byl. & Rowl. n. comb. (= *Pilocereus chrysacanthus* Weber in Schumann Gesamtb. d. Kakt. 1897, 178.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 66.
- Pilosocereus chrysoatele* (Vaup.) Byl. & Rowl. n. comb. (= *Cereus chrysoatele* Vaupel in Zeitschr. f. Sukkulenteenk. I, 1923, 58.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 66.
- Pilosocereus claroviridis* (Backbg.) Byl. & Rowl. n. comb. (= *Cereus claroviridis* Backbg. in Neue Kakt. 1931, 69, and Möllers Deutsche Gartenz. 1931, 81-2.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 66.
- Pilosocereus collinsii* (Br. & R.) Byl. & Rowl. n. comb. (= *Cephalocereus collinsii* Br. & R. in Cactaceae IV, 1923, 269.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 66.
- Pilosocereus columbianus* (Rose) Byl. & Rowl. n. comb. ("colombianus" in error) (= *Cephalocereus columbianus* Rose in Contr. U.S. Nat. Herb. XII, 1909, 416.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 66.
- Pilosocereus cometes* (Scheidw.) Byl. & Rowl. n. comb. (= *Cereus cometes* Scheidweiler in Allg. Gartenz. VIII, 1840, 339.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 66.
- Pilosocereus cuyabensis* (Backbg.) Byl. & Rowl. n. comb. (= *Pilocereus cuyabensis* Backbg. in Blatt. f. Kakteenf. 1935, 1.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 66.
- Pilosocereus deeringii* (Small) Byl. & Rowl. n. comb. (= *Cephalocereus deeringii* Small in N.Y. Bot. Gdn. J. XVIII, 1917, 201.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 66.
- Pilosocereus floccosus* Byl. & Rowl. nom. nov. [Miscited as n. comb.]. (= *Pilocereus floccosus* Backbg. & Voll in Arq. Jard. Bot. Rio de Janeiro IX, Dec. 1949, 150, non Lem. 1866.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 67.
- Pilosocereus gironensis* Rauh & Backeb. ex Byl. & Rowl. n. sp. (= *Pilocereus gironensis* Rauh & Backeb. in Backeb. Descr. Cact. Nov. 1956, 34, nom. inval. (Art. 42)) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 69.
- Pilosocereus glaucescens* (Lab.) Byl. & Rowl. n. comb. (= *Pilocereus glaucescens* Labourret in Monogr. Cact. 1853, 279.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 67.
- Pilosocereus glaucochrous* (Werd.) Byl. & Rowl. n. comb. (= *Pilocereus glaucochrous* Werd. in Brasilien und seine Säulenkakteen, 1933, 106.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 67.
- Pilosocereus gounellei* (Web.) Byl. & Rowl. n. comb. (= *Pilocereus gounellei* Weber in Schumann Gesamtb. d. Kakt. 1897, 188.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 67.
- Pilosocereus gounellei* (Web.) Byl. & Rowl. var. *zehntneri* (Br. & R.) Byl. & Rowl. n. comb. (= *Cephalocereus zehntneri* Br. & R. in Cactaceae II, 1920, 35; *Pilocereus gounellei* Web. var. *zehntneri* Backbg. in Backbg. & Knuth Kaktus-ABC, 1935, 331.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 67.
- Pilosocereus guerreronis* (Backbg.) Byl. & Rowl. n. comb. (= *Pilocereus guerreronis* Backbg. in Beitr. z. Sukk. und Pflege 1941. i, 3.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 67.
- Pilosocereus hapalacanthus* (Werd.) Byl. & Rowl. n. comb. (= *Pilocereus hapalacanthus* Werd. in Brasilien und seine Säulenkakteen, 1933, 110.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 67.
- Pilosocereus hermentianus* (Monv.) Byl. & Rowl. n. comb. (= *Cereus hermentianus* Monville in Illustr. Hort. VI, 1859, 90.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 67.
- Pilosocereus keyensis* (Br. & R.) Byl. & Rowl. n. comb. (= *Cephalocereus keyensis* Br. & R. in Contr. U.S. Nat. Herb. XII, 1909, 416.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 67.

- Pilosocereus lanuginosus* (L.) Byl. & Rowl. n. comb. (= *Cactus lanuginosus* Linnaeus in Sp. Pl. Edn. I, 1753, 467.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 67.
- Pilosocereus leucocephalus* (Poselg.) Byl. & Rowl. n. comb. (= *Pilocereus leucocephalus* Poselger in Allg. Gartenz. XXI, 1853, 126.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 67.
- Pilosocereus luetzelburgii* (Vaup.) Byl. & Rowl. n. comb. (= *Cereus lützelbergii* Vaupel in Zeitschr. f. Sukkulantenk. I, 1923, 57.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 67.
- Pilosocereus maxonii* (Rose) Byl. & Rowl. n. comb. (= *Cephalocereus maxonii* Rose in Contr. U.S. Nat. Herb. XII, 1909, 417.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 67.
- Pilosocereus millspaughii* (Britton) Byl. & Rowl. n. comb. (= *Cephalocereus millspaughii* Britton in Contr. U.S. Nat. Herb. XII, 1909, 417.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 67.
- Pilosocereus minensis* (Werd.) Byl. & Rowl. n. comb. (= *Cereus minensis* Werd. in Brasilien und seine Säulenkakteen, 1933, 93.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 67.
- Pilosocereus monoclonos* (D.C.) Byl. & Rowl. n. comb. (= *Cereus monoclonos* D.C. in Prodr. III, 1828, 464.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 67.
- Pilosocereus moritzianus* (Otto) Byl. & Rowl. n. comb. (= *Cereus moritzianus* Otto in Pfeiffer Enum. Cact. 1837, 84.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 67.
- Pilosocereus nobilis* (Haw.) Byl. & Rowl. n. comb. (= *Cereus nobilis* Haworth in Syn. Plant. Succ. 1812, 179.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 67.
- Pilosocereus oligolepis* (Vaup.) Byl. & Rowl. n. comb. ("*oligolepsis*" in error) (= *Cereus oligolepis* Vaupel in Notizbl. Bot. Gart. Berl. V, 1913, 285.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 67.
- Pilosocereus palmeri* (Rose) Byl. & Rowl. n. comb. (= *Cephalocereus palmeri* Rose in Contr. U.S. Nat. Herb. XII, 1909, 418.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 67.
- Pilosocereus pentaedrophorus* (Lab.) Byl. & Rowl. n. comb. (= *Cereus pentaedrophorus* Labouret in Monogr. Cact. 1853, 365.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 67.
- Pilosocereus perlucens* (Schum.) Byl. & Rowl. n. comb. (= *Cereus perlucens* Schumann in Monatss. f. Kakteenk. X, 1900, 173.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 67.
- Pilosocereus piauhyensis* (Gürke) Byl. & Rowl. n. comb. (= *Cereus piauhyensis* Gürke in Monatss. f. Kakteenk. XVIII, 1908, 84.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 67.
- Pilosocereus polygonus* (Lam.) Byl. & Rowl. n. comb. (= *Cactus polygonus* Lamarck in Encycl. I, 1783, 539.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 67.
- Pilosocereus purpusii* (Br. & R.) Byl. & Rowl. n. comb. (= *Cephalocereus purpusii* Br. & R. in Cactaceae II, 1920, 56.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 67.
- Pilosocereus robinii* (Lem.) Byl. & Rowl. n. comb. (= *Pilocereus robinii* Lemaire in Illustr. Hort. XI, 1864, 74.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 67.
- Pilosocereus royenii* (L.) Byl. & Rowl. n. comb. (= *Cactus royenii* L. in Sp. Pl. Edn. I, 1753, 467, *Pilocereus floccosus* Lem. non Backeb. & Voll.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 67.
- Pilosocereus rupicola* (Werd.) Byl. & Rowl. n. comb. (= *Pilocereus rupicola* Werd. in Brasilien und seine Säulenkakteen, 1933, 109.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 67.
- Pilosocereus salvadorensis* (Werd.) Byl. & Rowl. n. comb. (= *Pilocereus salvadorensis* Werd. in Brasilien und seine Säulenkakteen, 1933, 110.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 67.
- Pilosocereus sartorianus* (Rose) Byl. & Rowl. n. comb. (= *Cephalocereus sartorianus* Rose in Contr. U.S. Nat. Herb. XII, 1909, 419.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 69.
- Pilosocereus sergipensis* (Werd.) Byl. & Rowl. n. comb. (= *Pilocereus sergipensis* Werd. in Brasilien und seine Säulenkakteen, 1933, 106.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 69.
- Pilosocereus sublanatus* (S.D.) Byl. & Rowl. n. comb. (= *Cereus sublanatus* Salm-Dyck in Hort. Dyck. 1834, 337.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 69.
- Pilosocereus swartzii* (Gris.) Byl. & Rowl. n. comb. (= *Cereus swartzii* Grisebach in Fl. Brit. W. Ind. 1860, 301.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 69.

- Pilosocereus tehuacanus* (Weing.) Byl. & Rowl. n. comb. (= *Pilocereus tehuacanus* Weingart in Zeitschr. f. Sukk. III, 1927, 58.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 69.
- Pilosocereus tuberculatus* (Werd.) Byl. & Rowl. n. comb. (= *Pilocereus tuberculatus* Werd. in Brasilien und seine Säulenkakteen, 1933, 101.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 69.
- Pilosocereus tuberculosus* Rauh & Backeb. ex Byl. & Rowl. n. sp. (= *Pilocereus tuberculosus* Rauh & Backeb. in Backeb. Descr. Cact. Nov. 1956, 34, nom. inval. (Art. 42)) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 69.
- Pilosocereus tweedyanus* (Br. & R.) Byl. & Rowl. n. comb. (= *Cephalocereus tweedyanus* Br. & R. in Cactaceae II, 1920, 54.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 69.
- Pilosocereus ulei* (Schum.) Byl. & Rowl. n. comb. (= *Pilocereus ulei* Schum. in Gesamtb. d. Kakt. Suppl. 1903, 64, non *Cephalocereus ulei* Gürke 1908.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 69.
- Pilosocereus urbanianus* (Schum.) Byl. & Rowl. n. comb. (= *Pilocereus urbanianus* Schumann in Gesamtb. d. Kakt. 1897, 193.) in Cact. & Succ. J. Gt. Brit. XIX, July 1957, 69.
- Pyrhocactus kunzei* Y. Ito n. comb. (as "kuwzei") (= *Echinocactus kunzei* Först. 1846; *Neoporteria kunzei* Backeb. 1935; *Nochilenia kunzei* Backeb. 1951) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 228.
- Rebutia krainziana* var. *breviseta* (Backeb.) Donald n. comb. (= *Rebutia senilis* var. *breviseta* Backeb. in Kaktus ABC, 1935, 416.) in Nat. Cact. & Succ. J. XII, March 1957, 11; June 1957, 27-8.
- Rebutia marsoneri* var. *sieperdaiana* (Buin.) Donald n. comb. (= *Rebutia sieperdaiana* Buining in Succulenta XXIII, 1941, 15.) in Nat. Cact. & Succ. J. XII, March 1957, 11.
- Rebutia violaciflora* var. *carminea* (Buin.) Donald n. comb. (= *Rebutia carminea* Buining in Succulenta XXIII, 1941, 27.) in Kakt. u. and. Sukk. VIII, Feb. 1957, 24-7; Nat. Cact. & Succ. J. XII, March 1957, 11.
- Rebutia violaciflora* var. *knuthiana* (Backeb.) Donald n. comb. (= *Rebutia knuthiana* Backeb. in Kaktus ABC, 1935, 416.) in Kakt. u. and. Sukk. VIII, Feb. 1957, 24-7; Nat. Cact. & Succ. J. XII, March 1957, 11.
- Salpingolobivia andalgalensis* Y. Ito n. comb. (= *Cereus huascha* var. *rubiflorus* Web. 1893; *Cereus andalgalensis* Web. 1897) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 141.
- Salpingolobivia aurea* Y. Ito n. comb. (= *Echinopsis aurea* Br. & R. 1922; *E. aureiflora* Fric 1928, etc.) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 136.
- Salpingolobivia aurea* var. *elegans* Y. Ito n. comb. (= *Lobivia aurea* var. *elegans* Backeb. 1935; *Pseudolobivia aurea* var. *elegans* Backeb. 1951) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 137.
- Salpingolobivia aurea* var. *grandiflora* Y. Ito n. comb. (= *Lobivia aurea* var. *grandiflora* Backeb. 1935) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 137.
- Salpingolobivia aurea* var. *robustior* Y. Ito n. comb. (= *Lobivia aurea* var. *robustior* Backeb. 1935) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 137.
- Salpingolobivia cylindrica* Y. Ito n. comb. (= *Lobivia cylindrica* Backeb. 1935, etc.) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 138.
- Salpingolobivia densispina* Y. Ito n. comb. (= *Lobivia densispina* Werd. 1934) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 139.
- Salpingolobivia huascha* Y. Ito n. comb. (= *Cereus huascha* Web. 1893, etc.) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 141.
- Salpingolobivia shaferi* Y. Ito n. comb. (= *Lobivia shaferi* Br. & R. 1922) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 140.
- Selenicereus mallisonii* W. Beeson nom. nud. (= × *Heliaporus smithii* Rowl.) in Cact. & Succ. J. Gt. Brit. XIX, Jan. 1957, 14.
- Sericocactus haselbergii* Y. Ito n. comb. (= *Echinocactus haselbergii* Haage jr. 1885; *Malacocarpus haselbergii* Br. & R. 1922; *Notocactus haselbergii* Berg. 1929, etc.) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 223.

Thelocephala napina Y. Ito n. comb. (= *Echinocactus napinus* Phil. 1872; *Neoporteria napina* Backeb. 1935, etc.) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 149.

Thelocephala napina var. *spinosior* Y. Ito n. comb. (= *Neoporteria napina* var. *spinosior* Backeb. 1935) in Ito: Explanatory Diagram of Austroechinocactinae, March 1957, 149.

Toumeyia schwarzii (Shurly) Bravo & Marshall n. comb. (= *Strombocactus schwarzii* Shurly in Cact. & Succ. J. Gt. Brit. X, 1948, 93; *Turbincarpus schwarzii* Backeb.) in Saguaroaloud Bull. XI, March 1957, 30-1.

Zygocactus microsphaericus (Engelmann) Buxbaum n. comb. nud. in Kakt. u. and. Sukk. VIII, Sept. 1957, 136.

Compositae

Kleinia pusilla (Dint.) Merxm. n. comb. (= *Othonna pusilla* Dinter in Fedde Repert. XIX, 1923, 139; non *Senecio pusillus* Dinter ex Jacobs.; *Senecio klinghardtianus* Dint.) in Mitt. Bot. Staatss. München XVII-XVIII, 1957, 331.

Crassulaceae

Crassula pentandra (Edgw.) Schönl. var. *phyturus* (Mildbr.) Hedb. n. comb. (= *C. phyturus* Mildbr. in Notizbl. Bot. Gart. Berl. VIII, 1922, 227; *C. parvifolia* Bruce) in Symb. Bot. Upsal. XV. i, 1957, 100.

Euphorbiaceae

Pedilanthus tithymaloides (L.) Poit. subsp. *angustifolius* (Poit.) Dressl. n. comb. (= *P. angustifolius* Poit. 1812; *P. tithymaloides* var. *angustifolius* (Poit.) Griseb. 1859) in Contr. Gray Herb. CLXXXII, 1957, 161.

Pedilanthus tithymaloides (L.) Poit. subsp. *bahamensis* (Millsp.) Dressl. n. comb. (= *P. bahamensis* Millsp. 1913) in Contr. Gray Herb. CLXXXII, 1957, 165.

Pedilanthus tithymaloides (L.) Poit. subsp. *jamaicensis* (Millsp. & Britt.) Dressl. n. comb. (= *P. jamaicensis* Millsp. & Britt. 1913) in Contr. Gray Herb. CLXXXII, 1957, 159.

Pedilanthus tithymaloides (L.) Poit. subsp. *padifolius* (L.) Dressl. n. comb. (= *Euphorbia tithymaloides* β *padifolius* L. 1753; *Pedilanthus padifolius* (L.) Poit. 1812) in Contr. Gray Herb. CLXXXII, 1957, 156.

Pedilanthus tithymaloides (L.) Poit. subsp. *parasiticus* (Kl. & Gke.) Dressl. n. comb. (= *P. parasiticus* Kl. & Gke. 1860) in Contr. Gray Herb. CLXXXII, 1957, 148.

Pedilanthus tithymaloides (L.) Poit. subsp. *retusus* (Benth.) Dressl. n. comb. (= *P. retusus* Benth. 1854) in Contr. Gray Herb. CLXXXII, 1957, 154.

Pedilanthus tithymaloides (L.) Poit. subsp. *smallii* (Millsp.) Dressl. n. comb. (= *P. smallii* Millsp. 1913) in Contr. Gray Herb. CLXXXII, 1957, 152.

Ficoidaceae

Aizoanthemum dinteri (Schinz) Friedr. n. comb. (= *Aizoon dinteri* Schinz in Bull. Herb. Boiss. VI, 1898, 523; *Aizoanthemum* spp. Dint. nom. nud.) in Mitt. Bot. Staatss. München XVII-XVIII, 1957, 344.

Aizoanthemum galenioides (Sond.) Friedr. n. comb. (= *Aizoon galenioides* Fenzl ex Sonder in Fl. Cap. II, 1862, 469) in Mitt. Bot. Staatss. München XVII-XVIII, 1957, 344.

Conophytum incurvum N. E. Br. var. *leucanthum* (Lav.) Tischer n. comb. (= *Conophytum leucanthum* Lavis in Bolus Notes on Mesembr. II, 1934, 468; *C. leucanthum* var. *multipetalum* L. Bol. in l.c. III, 1936, 28.) in Kakt. u. and. Sukk. VIII, Nov. 1957, 169-170.

Conophytum stylosum (N. E. Br.) Tischer n. comb. (= *Mesembryanthemum stylosum* N. E. Br. in Curtis Bot. Mag. 1915, t. 8595A; *Conophytum markoetterae* Schwant.) in Kakt. u. and. Sukk. VIII, May 1957, 75-7.

Diplosoma luckhoffii (L. Bol.) Schwant. n. comb. subnud. (= *Monilaria luckhoffii* L. Bol.; *Maughania insignis* N. E. Br.; *Maughania luckhoffii* L. Bol.) in G. Schwantes "Flowering Stones and Mid-day Flowers", 1957, 129.

Ruschia veruculata (L.) Rowl. n. comb. (in error "*verruculata*") (= *Mesembryanthemum veruculatum* L. in Sp. Plant. Edn. I, 1753, 486; D.C. in Plant. Grass. 1800, t. 36) in Rowley "Pierre-Joseph Redouté — Raphael of the Succulents" (Reprint issued Oct. 1956); in Cact. & Succ. J. Gt. Brit. XIX, Jan. 1957, 7.

Portulacaceae

Lewisia cotyledon (Wats.) Robins. var. *heckneri* (Morton) Munz n. comb. (= *L. heckneri* Howell 1942; *Oreobroma heckneri* Morton 1931) in Aliso IV. i, Apr. 1958, 90.

NOMINA NUDA 1957

CULLMAN, — 8 transfers from *Peruwocereus* to *Haageocereus* without basonyms in Kakt. u. and. Sukk. VIII, Dec. 1957, 180.

RAPPA, F. — Suprageneric taxa in Ficoidaceae (“Mesembrianthemaceae”) in Kakt. u. and. Sukk. VIII, Feb. 1957, 21-2.

WINTER, H. — New genera and species of Cactaceae in “Kakteen — Cacti — Cactees” (Trade Catalogue; undated). 32 pages.

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Assistance is requested to make the I.O.S. Repertorium as complete as possible. The Editor earnestly asks for notification of any omissions or errors. Authors of new names in succulents would help him greatly if they would send reprints or abstracts of their innovations.

* * *

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